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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,150	02/17/2004	Yulun Wang	157438-0005	6067

1622 7590 10/30/2006

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EXAMINER

LEYKIN, RITA

ART UNIT PAPER NUMBER

2837

DATE MAILED: 10/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/781,150

Applicant(s)

WANG ET AL.

Examiner

Rita Leykin

Art Unit

2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13-25, 27, 28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Amendment*

This office action is in response to amendment filed on 8/29/06. Applicant's amendment and arguments have been considered. With respect to amendment the additional search has been provided toward monitor and camera installed on mobile robot and able to move together in at least one degree of freedom. Based on found prior art the application is rejected as it follows.

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 3-6, 8-11, 13-15, 17-20, 22-25, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jouppe US # 6,549,215 and Braun et al. US # 6,133,944.

With respect to **claims 1, 6, 11, 15, 20 and 25**, Jouppe discloses a system for displaying images using anamorphic video. Wherein Fig. 1 shows a user station 50 in location 52 and remotely stationed robot 60 in a second location 62. Wherein robot 60 is a mobile robot having its upper section 115 that includes camera array 82 and display 84. The upper section 115 with camera array and with the display 84 is mounted on a

Art Unit: 2837

shaft 116 that is coupled to the motor 118. In response to user commands controller 80 activates the motor 118, which turns the shaft 116 with the upper section 115. That reads on applicants "monitor and camera move together in at least one degree of freedom". In addition, the upper section 115 with cameras and display 85 may be tilted up or down to aid in viewing objects above or below the robot. The low-resolution camera 114 of the upper section 115 provides background information for the robot's display. The video image from camera 114 is transmitted to the user station. As the robot 60 moves the communication medium 74 transmits and receives via wireless transmitter/receiver 76 robot signals. (See col. 3, lines 61-65; col. 4, lines 10-12, 38-53; col. 5, lines 5-10).

With respect to above claims Jouppi does not teach a head worn device, (HWD). However, Braun et al. discloses such device in form of a head tracker located on a user's HWD, (see abstract and col. 2, lines 24-34).

With respect to **claims 3, 8, 17, 22**, Jouppi's invention relates to computer graphics for displaying images.

With respect to **claims 4, 5, 9, 10, 14, 18, 19, 23, 24, and 28**, Jouppi teaches in col. 16, lines 13-30 at least one microphone 501, shown in Fig. 33 for sensing the user's voice to transmit to the robot and at least one speaker 502 for playing the sounds detected by the microphone on the robot.

Hence, it has been obvious to one of ordinary skills in the art, at the time invention was made to use Jouppi teaching on remote telepresence via

transmitter/receiver network in combination with Braun et al. teaching on head worn device for choosing images to display a remote station and/or robot images.

The reason is to provide a video communication between operator's remote control station and robot locally operated station for use in medical field for supervision by physician of remote medical care process.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2, 7, 16, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jouppi US # 6,549,215 and Braun et al. US # 6,133,944 and Darling US # 6,995,664.

The limitations of independent claims have been discussed in the rejection above.

With respect to **claims 2, 7, 16, 21** Jouppi's and Braun's et al. disclosures do not include claimed holonomic mobile platform. However, Pin et al. teach such platform that includes wheel assembly and a support, (see title and abstract).

Hence, it has been obvious to one of ordinary skills in the art, at the time invention was made to use Pin et al. holonomic platform in Jouppi's invention to provide for robot mobility.

The reason is to achieve required movement in relation to rotational axis of the platform.

### ***Conclusion***

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:00-4:30.

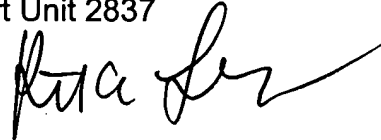
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571)272-2800 ext. 33. The fax phone

Art Unit: 2837

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rita Leykin  
Primary Examiner  
Art Unit 2837



R.L.